

DEC 21 2004

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ATTN: Art Unit 3742

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FROM: Douglas N. Larson

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E-MAIL: dlarson@ssd.com

RE: In re Application of Takashi Nagase, et al.

Serial No. 10/719,001

Filed: November 21, 2003

For: SOLDERING IRON TIP AND METHOD OF MANUFACTURING SAME

Atty. Docket No. 47434-00056

Message:

Transmitted herewith are the following:

1. Supplemental Information Disclosure Statement;
2. Form PTO/SB/08A with one foreign reference; and
3. Copy of International Search Report for Application No. PCT/US04/016633.

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PATENT
Atty. Docket: 47434-00056

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Takashi Nagase, Takashi Uetani, Yoshitomo
Teraoka, Takanori Naito, Masayuki Miyabe
and Norihisa Sekimori

Group Art Unit: 3742

Examiner: To be assigned

Serial No. 10/719,001

Filed: November 21, 2003

For: **SOLDERING IRON TIP AND METHOD
OF MANUFACTURING SAME**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed on the attached Form PTO/SB/08A are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. Copies of the three foreign references are submitted herewith. The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), as an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. A foreign patent reference is enclosed.

The references contained in this IDS were cited in an International Search Report for Application No. PCT/US04/016633, a copy of which is attached.

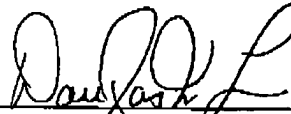
SERIAL NO. 10/719,001

PATENT
Atty. Docket: 47434-00056

It is respectfully requested that the Examiner indicate consideration of the cited references by returning with the Examiner's next action a copy of the attached form PTO/SB/08A with initials or other appropriate marks, and that the references be made of record as cited references in the application.

The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 07-1853 during the pendency of prosecution of this application. Should such additional fees be associated with an extension of time, applicant respectfully requests that this paper be considered a petition therefor. A duplicate of this paper is enclosed for the Deposit Account, should it be needed.

Respectfully submitted,



Douglas M. Larson
Registration No. 29,401

Dated: December 21, 2004

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PTO/SP/00A (08-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	1
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Complete If Known

Application Number	10/719,001
Filing Date	November 21, 2003
First Named Inventor	Takashi NAGASE
Art Unit	3742
Examiner Name	To be assigned
Attorney Docket Number	47434-00056

[illegible]

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code* Number* Kind Code* (if known)			
		JP 2000268723	01/17/2000	Matsusawa	

**Examiner
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Date	
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***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 47434-00068	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/US04/16633	International filing date (day/month/year) 25 May 2004 (25.05.2004)	(Earliest) Priority Date (day/month/year) 21 November 2003 (21.11.2003)
Applicant HAKKO CORP.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the Report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).



- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

I.

2. ☐ Certain claims were found unsearchable (See Box No. II)

3. ☐ Unity of invention is lacking (See Box No. III)

4. With regard to the title,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 8



as suggested by the applicant.



as selected by this Authority, because the applicant failed to suggest a figure.



as selected by this Authority, because this figure better characterizes the invention.



b. none of the figures is to be published with the abstract.

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/16633

Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

A soldering and desoldering iron (100) comprises a replaceable tip cap (130) fixed on the forward heat conducting core end (150) of a soldering or desoldering iron assembly. Conductive paste, powder, or a low melting temperature material (220), such as solder, is sandwiched between the tip cap and the forward end to improve heat conductivity therebetween. An assembly that allows for the easy removal and application of a replacement tip cap can include a sleeve with tightening bolt, a coil spring sleeve, or a slotted compressible sleeve.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/16633

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B23K 3/02

US CL : 219/229; 228/51

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 219/229-234, 236; 228/51-55

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
US, PGPUB, JPO, Derwent

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 1,667,618 A (ABBOTT) 24 April 1928 (24.04.1928), Fig. 1, P. 1, lines 27-71.	1, 3, 5, 12, 15, 35, 40, 73, 74, 125, 126, 128, 130, 131, 145, 147, and 154-157
Y		2, 4, 6-11, 13, 14, 16-34, 36-39, 41-67, 71, 72, 75-89, 94-124, 127, 129, 132-144, 146, 148-153, 158-182, 184-188

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

Special categories of cited documents:

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- "O" document referring to an oral disclosure, use, exhibition or other means
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- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "d" document member of the same patent family

Date of the actual completion of the international search

28 October 2004 (28.10.2004)

Date of mailing of the international search report

22 NOV 2004

Name and mailing address of the ISA/US

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Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

John A. Jeffery

Telephone No. (703) 308-0861

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/16633

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 29,039 A (PATEE) 03 July 1860 (03.07.1860), Fig. 1 and 2.	2, 4, 6-11, 13-34, 36-39, 41-57, 66, 67, 75, 87-89, 99-110, 122-124, 127, 129, 132-144, 146, 148-153, 157-164, 167-176m 179, 181, 182, 186
Y	JP 2000-288723 A (MATSUZAWA), 17 October 2000 (17.10.2000), Figs. 1 and 2.	58, 60-65, 71, 72, 76, 77, 80-86, 95-98, 166, 184, 185
Y	US 4,568,819 A (STACCONI) 04 February 1986 (04.02.1986), Abstract, Fig. 3.	177, 178-182, 184-188
A	US 6,386,423 B1 (ADLER et al) 14 May 2002 (14.05.2002), Entire document.	1-188
A	US 3,876,857 A (DHILLON) 08 April 1975 (08.04.1975), Fig. 2.	1-188